REMARKS

Claims 1-35 remain in the application for consideration of the Examiner.

Reconsideration and withdrawal of the outstanding rejections are respectfully requested in light of the above amendments and following remarks.

The drawings were objected to.

By the instant amendment, a proposed set of corrected drawings have been submitted for approval of the Examiner.

Claim 1 was objected to.

By the instant amendment, Claim 1 has been amended to take into consideration the helpful comments of the Examiner.

It is respectfully submitted that Claims 1-35 are free from informalities.

Claim 35 was rejected under 35 U.S.C. § 112, second paragraph, as being incomplete.

By the instant amendment, the dependency of Claims 34 and 35 have been amended to depend from independent Claim 33.

It is respectfully submitted that this change of dependency renders Claim 35 in full compliance with 35 U.S.C. § 112 and particularly points out and distinctly claims the subject matter which Applicants believe is their invention.

Turning now to the art rejections, Claims 1-32 were rejected under 35 U.S.C. § 103 as being unpatentable over Dudziak in view of Bickley; and Claims 33-35 were rejected under 35 U.S.C. § 103 as being unpatentable over Bickley.

These rejections are respectfully traversed.

It is respectfully submitted that Dudziak does not disclose or suggest the presently claimed invention including a variable transfer function circuit element in the signal path which is variable in response to a signal from the calibration error signal detector in independent Claim 1, a variable transfer function circuit element, and a filter circuit coupled between the calibration error signal detector and the variable transfer function circuit element to generate an adjustment signal operable to adjust the transfer function of the variable transfer function element in independent Claim 13, the method step of adjusting a variable transfer function element in the signal path in accordance with the evaluation of the detected calibration error signal in independent Claim 29, albeit defined as the calibration excitation signal generator coupled to the voltage reference node for transmitting a calibration excitation signal through a variable transfer function in independent Claim 33.

Applicants agree with the Examiner as evidence by page 4 of the Office Action that Dudziak does not teach a variable transfer element responsive to the detector.

It is respectfully submitted that Bickley does not disclose or suggest the presently claimed invention including a variable transfer function element in the signal path being variable in response to a signal from the calibration error signal as defined in the various forms in independent Claims 1, 13, 29, and 33.

The output of the 1 kHz synchronous detector 78 of Bickley is delivered to controller 50 for use in sensing the null for calibration.

Figure 2 discloses that controller 50 is not in the signal path which is represented by elements 42, 44, 26a, 28a, 28b, and 46.

Furthermore, the Examiner's attention is directed to column 7, lines 40-50 where Bickley discloses that the controller uses the current operator parameter system and the most nearly corresponding transfer function adjustment value stored in memory 52 to generate appropriate transfer functions for delivery to the first function processor 42 using interpolation.

The patent to Bickley discloses first changing parameters, then changing transfer adjustment value to correspond to parameters. There is no variable transfer for a given set of parameters.

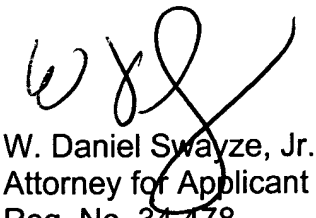
It is respectfully submitted that Claims 1-35 patentably define over the applied art.

In light of the above, it is respectfully submitted that the present application is in condition for allowance, and notice to that effect is respectfully requested.

While it is believed that the instant response places the application in condition for allowance, should the Examiner have any further comments or suggestions, it is respectfully requested that the Examiner contact the undersigned in order to expeditiously resolve any outstanding issues.

To the extent necessary, Applicant petitions for an Extension of Time under 37 CFR 1.136. Please charge any fees in connection with the filing of this paper, including extension of time fees, to the deposit account of Texas Instruments Incorporated, Account No. 20-0668.

Respectfully submitted,



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